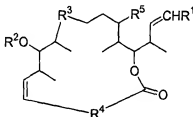


# ABSTRACT OF THE DISCLOSURE

A compound of the following structure:



wherein  $R^1$  is H, an alkyl group, an aryl group, an alkenyl group, an alkynyl group, or a halogen atom;

$R^2$  is H, an alkyl group, an aryl group, a benzyl group, a trityl group,  $-\text{SiR}^a\text{R}^b\text{R}^c$ ,  $\text{CH}_2\text{OR}^d$ , or  $\text{COR}^e$ ;

$R^a$ ,  $R^b$  and  $R^c$  are independently an alkyl group or an aryl group;

$R^d$  is an alkyl group, an aryl group, an alkoxyalkyl group,  $-\text{R}'\text{SiR}^a\text{R}^b\text{R}^c$  or a benzyl group, wherein  $R'$  is an alkylene group;

$R^e$  is an alkyl group, an allyl group, a benzyl group, an aryl group, an alkoxy group, or  $-\text{NR}^f\text{R}^h$ , wherein  $R^f$  and  $R^h$  are independently H, an alkyl group or an aryl group;

$R^3$  is  $(\text{CH}_2)_n$  where n is an integer in the range of 0 to 5,  $-\text{CH}_2\text{CH}(\text{CH}_3)-$ ,  $-\text{CH}=\text{CH}-$ ,  $-\text{CH}=\text{C}(\text{CH}_3)-$ , or  $-\text{C}\equiv\text{C}-$ ;

$R^4$  is  $(\text{CH}_2)_p$  where p is an integer in the range of 4 to 12,

$-(\text{CHR}^{k1})_{y1}(\text{CHR}^{k2})_{y2}(\text{CHR}^{k3})_{y3}(\text{CHR}^{k4})_{y4}(\text{CHR}^{k5})_{y5}\text{C}(\text{R}^{s1})=\text{C}(\text{R}^{s2})\text{C}(\text{R}^{s3})=\text{C}(\text{R}^{s4})-$ ,

$-(\text{CHR}^{k1})_{y1}(\text{CHR}^{k2})_{y2}(\text{CHR}^{k3})_{y3}(\text{CHR}^{k4})_{y4}(\text{CHR}^{k5})_{y5}\text{CH}(\text{R}^{s1})\text{CH}(\text{R}^{s2})\text{C}(\text{R}^{s3})=\text{C}(\text{R}^{s4})-$ ,

$-(\text{CHR}^{k1})_{y1}(\text{CHR}^{k2})_{y2}(\text{CHR}^{k3})_{y3}(\text{CHR}^{k4})_{y4}(\text{CHR}^{k5})_{y5}\text{C}(\text{R}^{s1})=\text{C}(\text{R}^{s2})\text{CH}(\text{R}^{s3})\text{CH}(\text{R}^{s4})-$ ,

$-(\text{CHR}^{k1})_{y1}(\text{CHR}^{k2})_{y2}(\text{CHR}^{k3})_{y3}(\text{CHR}^{k4})_{y4}(\text{CHR}^{k5})_{y5}\text{CH}(\text{R}^{s1})\text{CH}(\text{R}^{s2})\text{CH}(\text{R}^{s3})\text{CH}(\text{R}^{s4})-$ ,

wherein  $y_1$  and  $y_2$  are 1 and  $y_3$ ,  $y_4$  and  $y_5$  are independently 0 or 1,  $R^{k1}$ ,  $R^{k2}$ ,  $R^{k3}$ ,  $R^{k4}$  and  $R^{k5}$  are independently H,  $\text{CH}_3$ , or  $\text{OR}^{2a}$ , and  $R^{s1}$ ,  $R^{s2}$ ,  $R^{s3}$ , and  $R^{s4}$  are independently H or  $\text{CH}_3$ , wherein  $R^{2a}$  is H, an alkyl group, an aryl group, a benzyl group, a trityl group,  $-\text{SiR}^a\text{R}^b\text{R}^c$ ,  $\text{CH}_2\text{OR}^d$ , or  $\text{COR}^e$ ; and

$R^5$  is H or  $\text{OR}^{2b}$ , wherein  $R^{2b}$  is H, an alkyl group, an aryl group, an aryl group, a benzyl group, a trityl group,  $-\text{SiR}^a\text{R}^b\text{R}^c$ ,  $\text{CH}_2\text{OR}^d$ , or  $\text{COR}^e$ ; provided that the compound is not diacytostatin 1.